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regions and nonstandard A · G base pairs at several points.

- L6 ANSWER 8 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- AN 1985:403673 BIOSIS
- DN PREV198580073665; BA80:73665
- TI CLONED RIBOSOMAL RNA GENES FROM PSEUDOMONAS-AERUGINOSA AS PROBES FOR CONSERVED DNA SEQUENCES.
- AU SCHLEIFER K H [Reprint author]; LUDWIG W; KRAUS J; FESTL H
- CS LEHRSTUHL FUER MIKROBIOLOGIE, TECHNISCHE UNIVERSITAET MUENCHEN, D-8000 MUNICH 2, FEDERAL REPUBLIC OF GERMANY
- SO International Journal of Systematic Bacteriology, (1985) Vol. 35, No. 3, pp. 231-236.

 CODEN: IJSBA8. ISSN: 0020-7713.
- DT Article
- FS BA
- LA ENGLISH
- rRNA genes were isolated from a PstI digest of P. AB aeruginosa chromosomal DNA, cloned in Escherichia coli and used as probes for conserved gene sequences. Recombinant plasmid pHF1 contained an 8800-base pair insertion containing 5, 16 and 23S rRNA genes. One constructed subclones of pHF1 containing parts of the 16S and 23S rRNA genes (pHF1.1) and parts of the 23S and 5S rRNA genes (pHF 1.2). DNA-DNA hybridization experiments in which one used filter-bound chromosomal DNA from various bacteria and 35S-labeled plasmid rRNA genes (rDNA) indicated that the homology values reflected the actual phylogenetic distances to P. aeruginosa. Compared with oligonucleotide sequence analysis of 16S rRNA, a good correlation was found between DNA-rDNA homology values and SAB (similarity coefficient of 16S rRNAs) values above 0.4. The use of rDNA instead of rRNA in hybridization experiments offers several advantages; e.g., rDNA can easily be labeled in vitro and the degree of relatedness can be expressed in terms of percent homology and does not have to be determined by laborious measurement of thermal stability, as in the case of rRNA.

- L6 ANSWER 7 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- AN 1986:377607 BIOSIS
- DN PREV198682072583; BA82:72583
- TI SEQUENCE OF 5S RIBOSOMAL RNA OF PSEUDOMONAS-PUTIDA AND ITS POSSIBLE SECONDARY STRUCTURE.
- AU KOH M [Reprint author]; PARK I; LEE S Y
- CS DEP CHEM, SEOUL NATL UNIV, SEOUL, KOREA
- SO Korean Biochemical Journal, (1986) Vol. 19, No. 1, pp. 61-66. CODEN: KBCJAK. ISSN: 0368-4881.
- DT Article
- FS BA

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- LA ENGLISH
- ED Entered STN: 20 Sep 1986 Last Updated on STN: 20 Sep 1986
- AB We have determined the sequence of **5S rRNA** of Pseudomonas putida by enzymatic and chemical degradation methods. P. putida **5S rRNA** has a chain length of 120 nucleotides. It contains no modified nucleoside. Homologies among **5S** rRNAs of P. putida, P. **aeruginosa**, and P. fluorescens are higher than 85% of the total sequence. Based on the information from nuclease S1 and RNase T1 treatment, a possible secondary structure of **5S rRNA** has been constructed. We have found two unstable helix regions and nonstandard A · G base pairs at several points.

- L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1995:7846 CAPLUS
- DN 122:25306

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- TI Characterization of contaminating DNA in Taq polymerase which occurs during amplification with a primer set for Legionella 5S ribosomal RNA
- AU Maiwald, M.; Ditton, H. J.; Sonntag, H. G.; von Knebel Doeberitz, M.
- CS Abt. Hyg. Med. Mikrobiol., Hygiene-Inst. Univ., Heidelberg, 69120, Germany
- SO Molecular and Cellular Probes (1994), 8(1), 11-14 CODEN: MCPRE6; ISSN: 0890-8508
- DT Journal
- LA English
- AB An amplification product that occurred in neg. controls of a PCR using a primer system for Legionella 5S rRNA was characterized by direct sequencing. The amplification product did not hybridize to a Legionella specific oligonucleotide. It was derived from bacterial DNA contaminating Taq DNA polymerase, a phenomenon that was previously reported for amplification reactions with universal primer sets for bacterial 16S rRNA. The sequence of the 5S ribosomal fragment had close homol. to the 5S rRNA of the species of Pseudomonas fluorescens, Pseudomonas aeruginosa, Alcaligenes faecalis, and Azotobacter vinelandii. These findings confirm that the DNA contaminations in Taq DNA polymerase belong to species other than Thermus aquaticus or Escherichia coli.
- L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1988:487133 CAPLUS
- DN 109:87133
- TI Nucleotide sequence of a gene for **5S** ribosomal RNA from Pseudomonas **aeruginosa**
- AU Housiaux, Philip J.; Hill, Diana F.; Petersen, George B.
- CS Dep. Biochem., Univ. Otago, Dunedin, N. Z.
- SO Nucleic Acids Research (1988), 16(6), 2722 CODEN: NARHAD; ISSN: 0305-1048
- DT Journal
- LA English
- AB A 4.5 kb fragment of DNA derived from a library of BamH1 fragments of P. aeruginosa strain K (ATCC 25102) cloned into plasmid pUC9 was shown by hybridization with 32P-labeled 16 S and 23 S rRNAs to represent part of a RNA operon from that organism. The fragment has been sequenced by the chain termination method after fragmentation and subcloning into the sequencing vectors M13mp8 and M13mp9. A sequence corresponding to 5 S ribosomal (nucleotides 7-126) RNA was identified by homol. with the corresponding sequence from Escherichia coli.